Preclinical and clinical studies of topical preparations of rhodomyrtone, antibacterial isolated compounds from *Rhodomyrtustomentosa* ((Ait) Hassk) for the treatment of skin infections

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In an effort to find an alternative drug for skin infections, isolation of Rhodomyrtone, antibacterial active substances was carried out from the dried leaves of *Rhodomyrtustomentosa* (Ait.) Hassk. Rhodomyrtone was isolated as yellowish white needle crystals with melting range 181-183°C. This compound was elucidated based on spectroscopic data and comparison was done with literature data. Rhodomyrtone inhibited the growth of *Staphylococcus aureus* ATCC 6538 and *Staphylococcus epidermidis* ATCC 12228 by 18.15 mm and 18.0 mm at a concentration of 1000 ppm respectively. The ability of healing skin infection was determined on rhodomyrtone vanishing cream (2% w/v). This cream was subjected to rabbit skin which had been infected with *Staphylococcus aureus*. Chloramphenicol cream (2% w/v) was used for standard. Edema and eritema in the area of infection were also used as observed parameters. In vivo experiments showed that rhodomytrone cream could reduce infections on rabbit skin. This preparation did not cause irritation both in rabbits and humans.

Biography

Dachriyanus received undergraduate degrees from Andalas University in 1991 and finished his PhD from University of Western Australia in 1999. He got Professorship from Indonesian Ministry of Education in 2005. He has some collaborative research with University of Western Australia and University Putra Malaysia. His research is in chemical and biological activity studies of Sumatran Plants especially Genus *Garcinia* and *Rhodomyrtustomentosa*. He has 49 publications in various journals of repute. From 2005-2008, he held the position of Head of Department of Pharmacy, Andalas University and from 2008-2010 as a Dean Faculty of Pharmacy, Andalas University. In addition, he was also appointed as vice president for academic affair of Indonesian Pharmacist Association in 2009. He has been appointed as a Dean Faculty of Nursing Andalas University from 2012-2016.

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